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## **DOCUMENTATION FOR USING MY DFA CHECK TOOL**

### Input requirement:

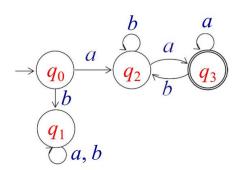
- The number of rows of the exact DFA transition table
- Every index of all states of the transition table
- The number of final states, and the index of them
- The string which you want to check with the given DFA

### Output:

- The visualization of the DFA transition table
- All the final states
- Which states that the DFA stopped at when completing checking the string
- The validity of the string

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#### Demo:



Transition Table:		
	а	b
q0	q2	q1
q1	q1	q1
q2	q3	q2
q3	q3	q2

Final state is q3

## Implement this problem on the program:

1. First we input the number of rows of the transition is 4, then enter each element of the table to the program like this:

```
(?) Enter numbers of rows of Transition Table:

Rows = 4

ArTrans[row 1][col 1] = 2

ArTrans[row 2][col 2] = 1

ArTrans[row 2][col 1] = 1

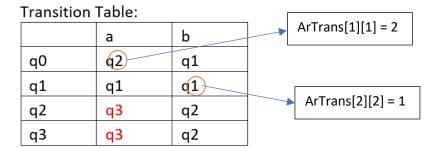
ArTrans[row 2][col 2] = 1

ArTrans[row 3][col 1] = 3

ArTrans[row 3][col 2] = 2

ArTrans[row 4][col 1] = 3

ArTrans[row 4][col 2] = 2
```



2. Then we enter the number of final states and what are they:

```
(?) Enter the number of final states: 1
Enter final state q_3
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3. After all, enter the string:

```
(?) Enter the string: bbabababababababababababbbbaa
```

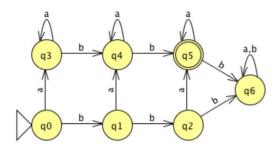
4. Enjoy the final result:

Input sample I used above (Just copy it and paste on the program, then press Enter to see the result):

```
4
2
1
1
1
3
2
3
2
1
3
bbababababababababababbababbbbaa
```

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# **Bonus Sample 2:**



# Input sample:

```
3
1
4
2
5
6
3
4
4
5
5
6
6
6
1
5
aaaaaaaaaaabaaabaaaaaaaaaaaa
```